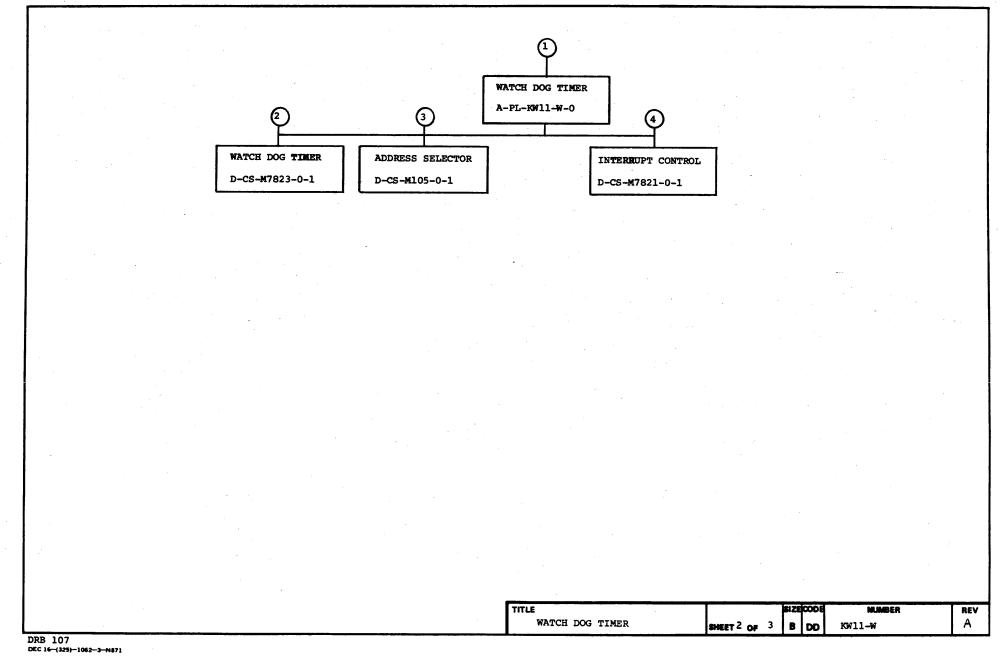
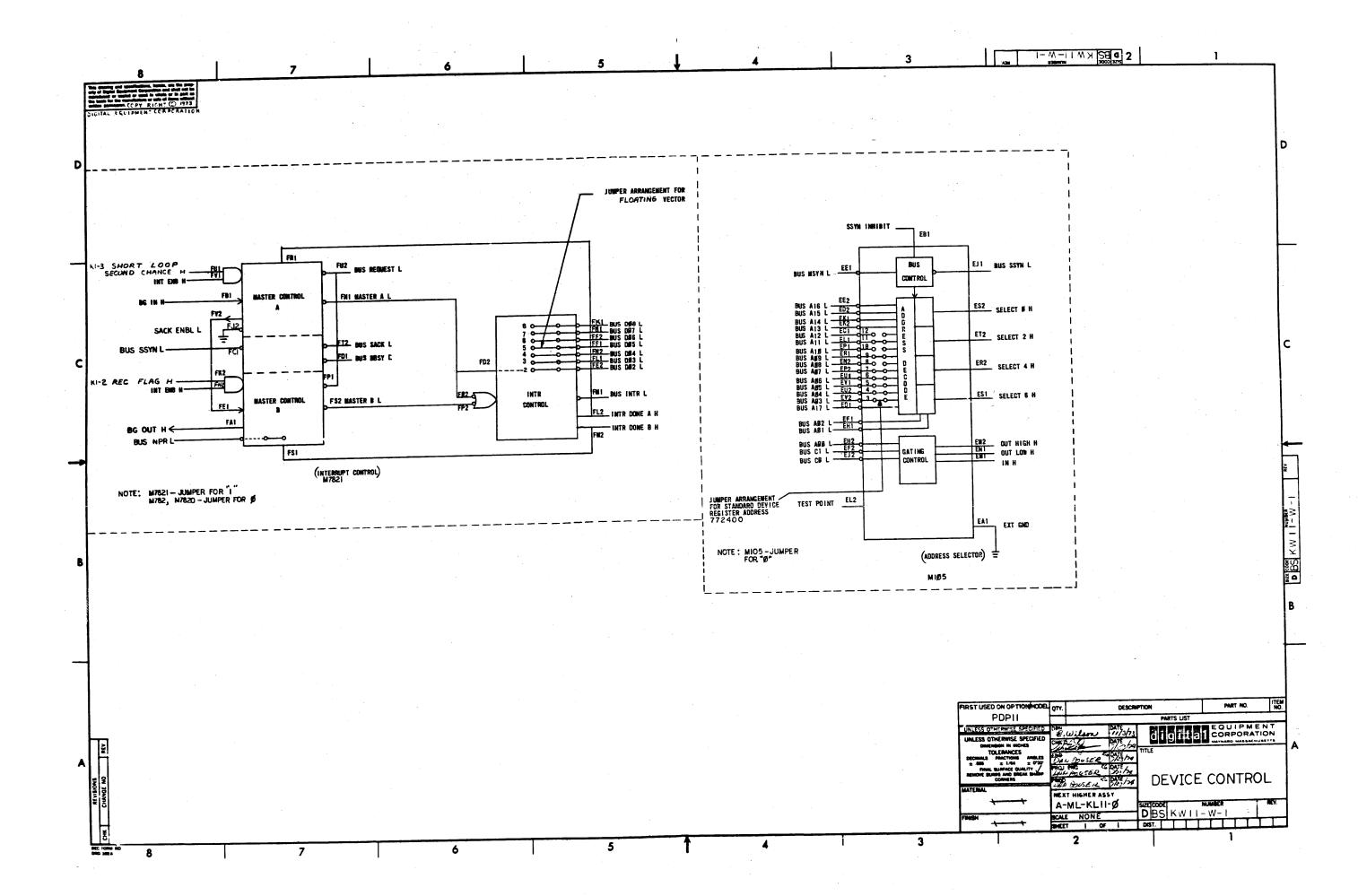
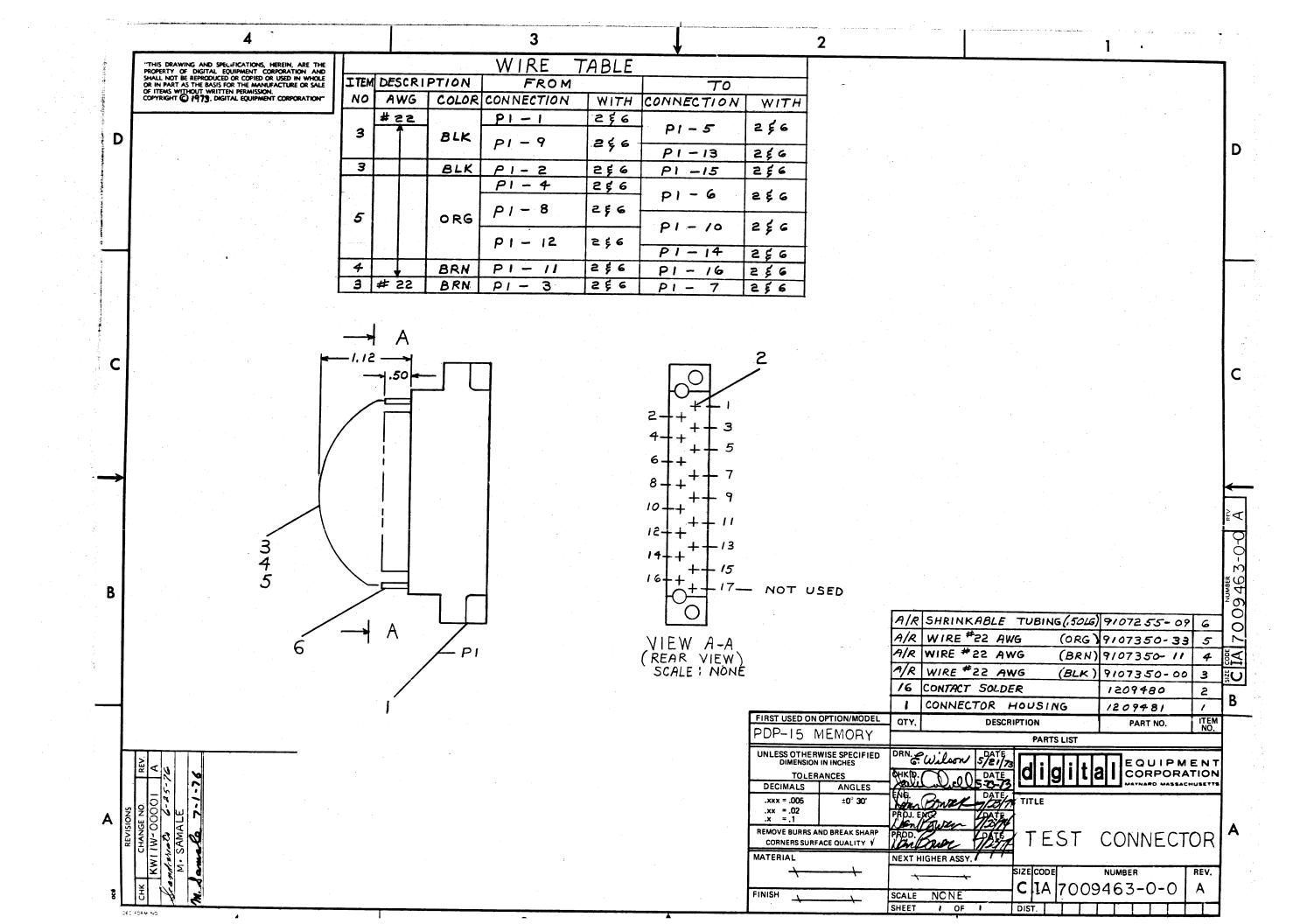
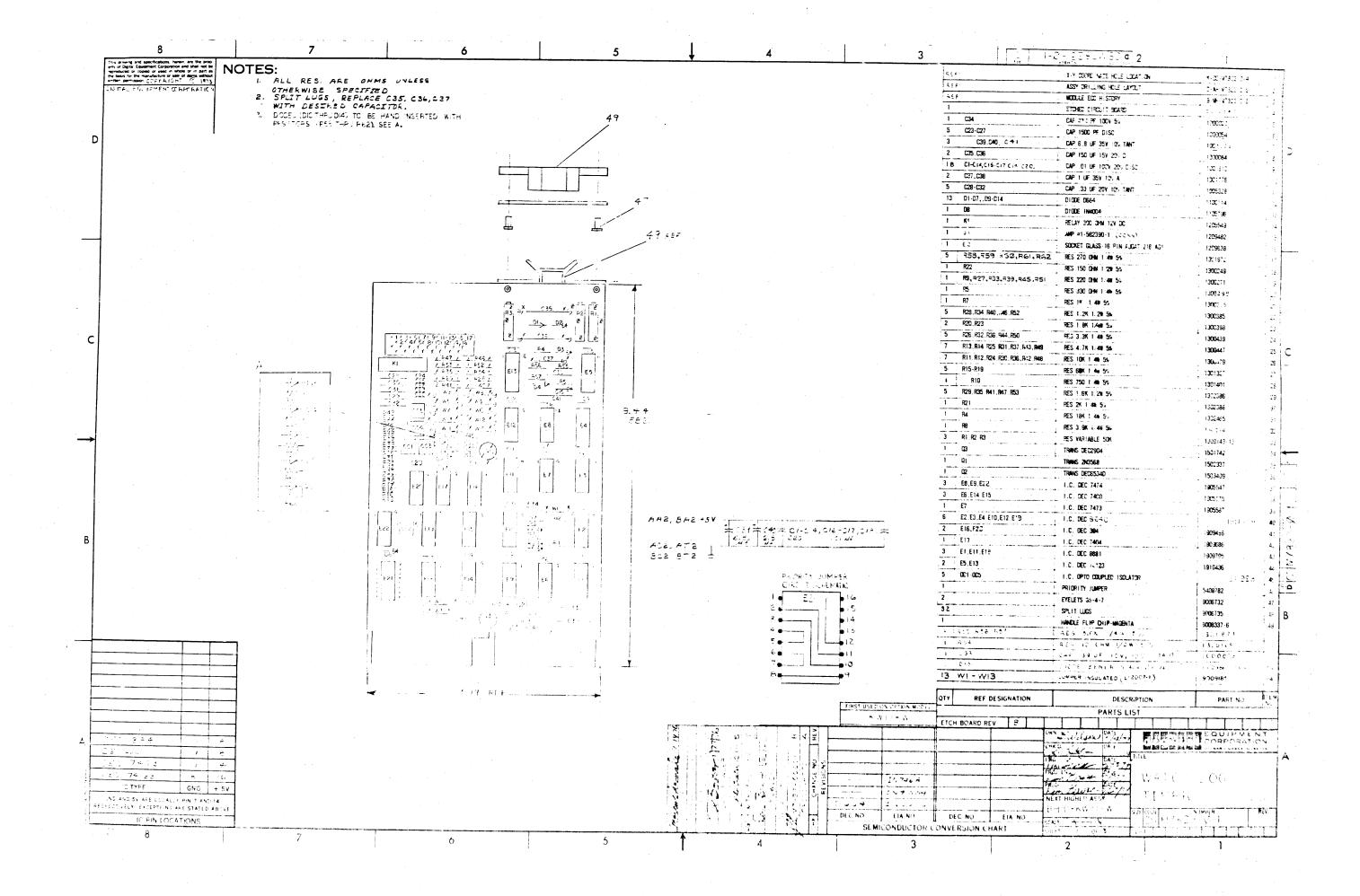
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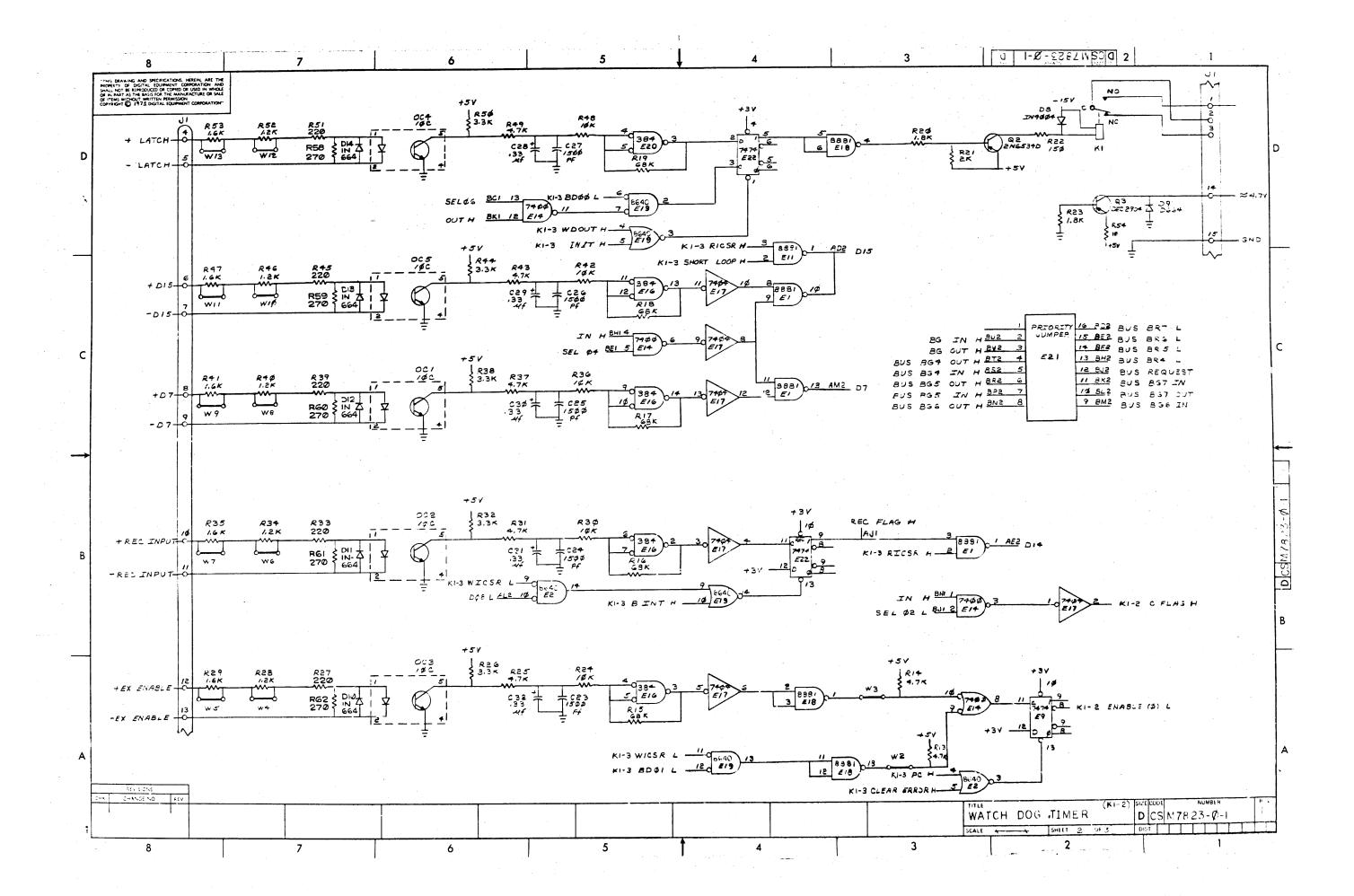


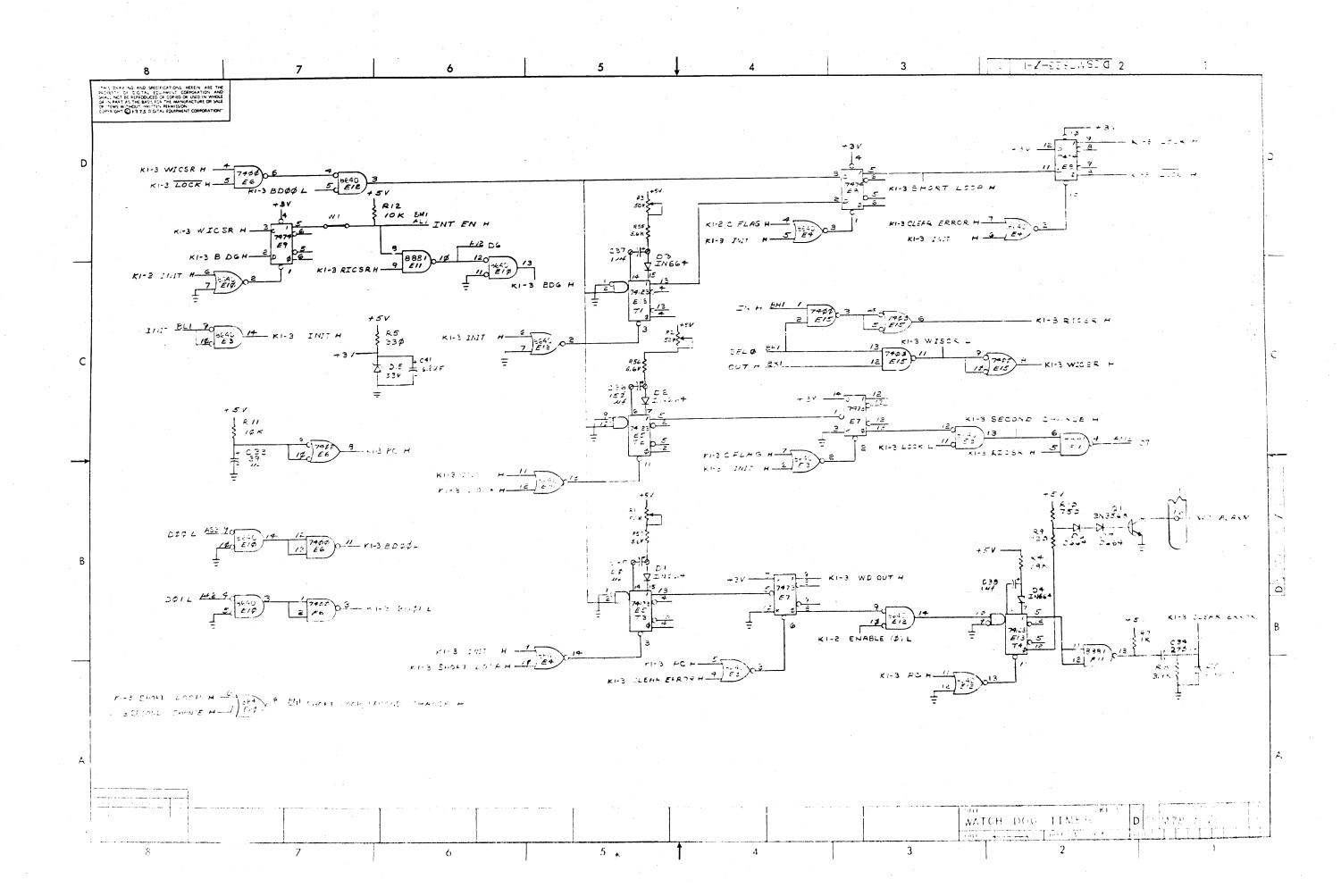
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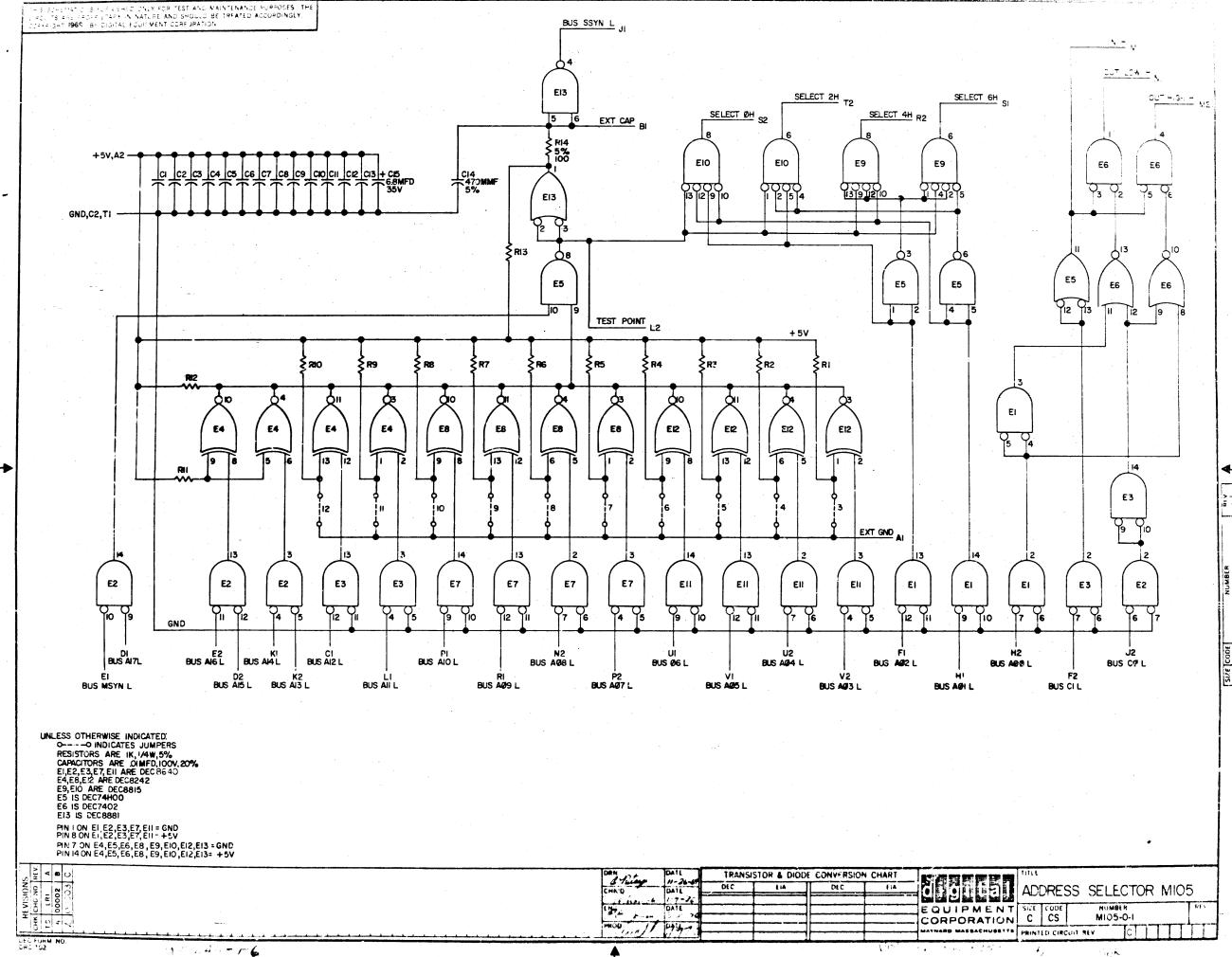


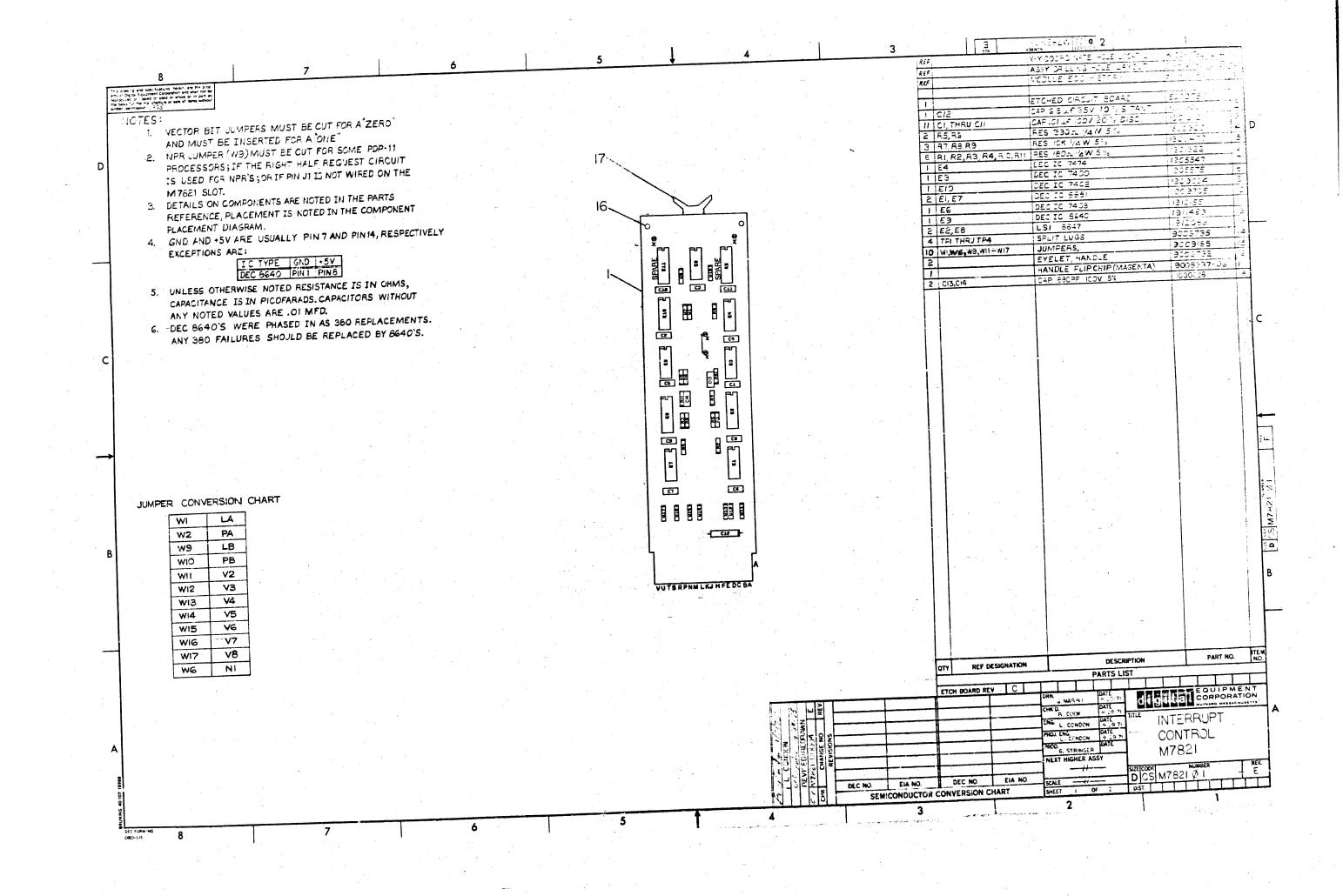


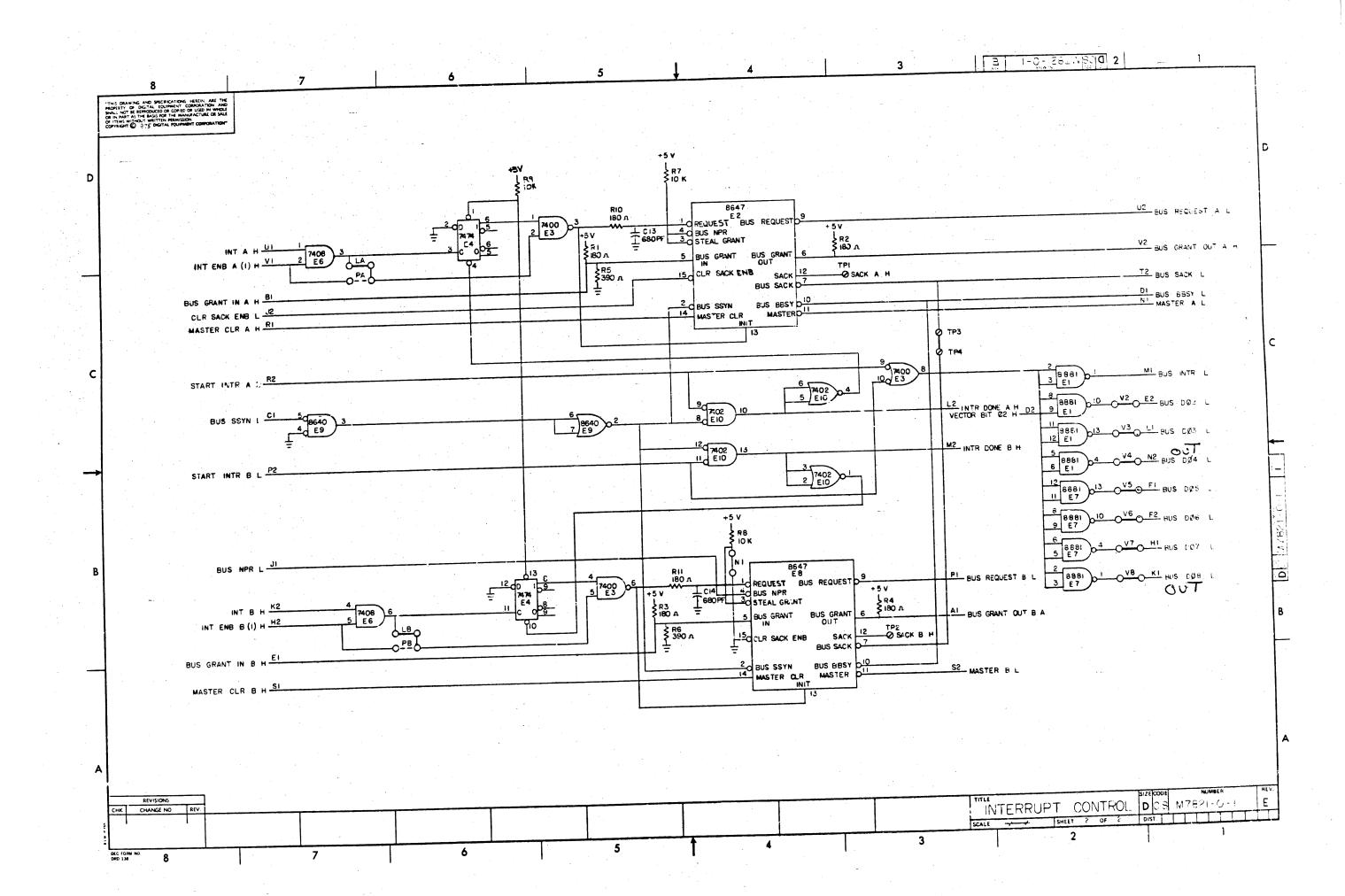












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TITLE	KW11-W Engi	neering Spec	ifications						
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DIGITAL EQUIPMENT CORPORATION

**ENGINEERING SPECIFICATION** CONTINUATION SHEET KWll-W Engineering Specifications 1. Environmental Specifications: +10°c to +50°c Operating Temperature Relative Humidity (no condensation) 20% to 95% +5V, +.25V, 1.3 amps -15V, +.25V, .2 AMPS 12 Watts Power Requirements (of option) Power Dissipation 1.1 Performance Specifications: Inputs (optically isolated) Input Levels (selected by jumpers)
Input Current 6V, 24V, 48V norminal +13ma to +22ma = "1" -2 MA to +2 MA = "9" Input Response Time (6V step input) 2.5ms. max. normal 50us. maximum optional 1010 ohms minimum Common Mode Input Impedance Outputs Relay Output 28V, of 250ma 3 (3VA) resistive Solid State Output Open Collector 55V, 100ma (-3W). Timing Refer to KWll-W Adjustment T1, Short Loop Procedure T2, Second Chance T3, Watchdog T4, Error Pulse 5msec. <u>+</u>30% SIZE CODE REV A NUMBER KW11-W-2 DEC FORM NO DEC 16-(381)-1022-N370 DRA 108 OF \_8 SHEET 2

### **ENGINEERING SPECIFICATION** diognitia CONTINUATION SHEET KWll-W Engineering Specifications: 2.0 Programming

The device registers and associated addresses are listed in Section 2.1. Note that these addresses can be changed by altering the jumpers on the M105 address selector module. However, any programs or other software referring to these addresses must also be modified accordingly.

#### 2.1 Register Address Assignments

Register	Address
CSR/WD (Watchdog Control and Status Register)	772400
Clear Flags (T1, Short Loop; T2, Second Chance)	772402
External CSR	772404
Switch Relay	772406

#### 2.2 -Vector Address Assignments (Floating Vectors)

Short Loop 2 0350 Second Chance 350 Receive Flag

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

SIZE CODE SP NUMBER KW11-W-2 REV SHEET 3 OF 8

**ENGINEERING SPECIFICATION** TITLE KWll-W Engineering Specifications Option Priority The priority level of both interrupts is set at BR7. How-ever, this priority may be changed by changing the priority jumper plug. (Levels of BR4 through BR7 are available.) 2.4 CSR/WD (Watchdog Control and Status Register, 772400) 15 8 ,6 1 귂, Short T2, Second Enable Loop Timer Chance Enable Start Receive Clear Interrupts Timer Flag Receive SIZE CODE SP

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**CONTINUATION SHEET** 

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

SHEET \_4\_ OF \_ 8\_\_\_

ENGINE	RING SPECIFICATION	C	righted had	С	ONTINUATION SHEET	
TITLE KW	ll-W Engineering Specific	ations				_
Bit	Name	Me	aning	and_0	Operation	_
15	Tl, Short Loop				if the watchdog is re Tl times out.	8
		An inter	errup cupts	t is (Bit	generated if Enab 6) is also set.	le
		Read o	_		Cleared by INIT a	nd
14	Receive Flags		dev:	ice an	r control of the d is set to a "1"	
					generated if Enab 6) is also set.	le
·				bit. ive Fl	Cleared by INIT a	nd
8	Clear Receive Flag	When Recei	set to	o a "] ag, (E	l", clears out the Bit 14).	•
		Write	only	bit.		į
7	T2, Second Chance	times to in	out. dicat to t	Can e that ime ou	if the T2 delay be used as a warr t the watchdog is ut and generate an	l l
		An in Inter	terru rupts	pt is (Bit	generated if Enak 6) is also set.	ole
			only Flag		Cleared by INIT	and
6	Enable Interrupts	gener (Bit	ate <b>d</b> . 15),F	provi	s an interrupt to ded T1, Short Loop e Flag (Bit 14), o ce (Bit 7) becomes	p or
		Read	/Write	bit.	Cleared by INIT	
			SIZE	CODE SP	NUMBER KW11-W-2	REV A
DEC FORM NO DRA 108	DEC 16-(381)-1022-N370				SHEET 5 OF	8
URA 108						

NGIN	IEERIN	G SPECIF	ICATION	duiqiitia	CONT	NUATION SHEET	
ITLE K	V11-W En	gineering	Specification	ns			
2.5	Clear F	lags (772	400)				
	When is	sued, clea	ers out all f	lags; Tl,	Short Lo	op (Bit 15);	
	Read on	ly.					
2.6	Externa	1 CSR (77	2404)				
ė			15	7			
		· L					
		D1	1	LDØ7			
	Bit	Name	Meaning an	d Operation	on		
	15	D15	Input bit device sta		onitor ex	ternal	
			Read only	bit.			
	7	DØ7	device sta		onitor ex	ternal	
2.7	Cred trab	   Relay ((7	Read only	bit.			
2.4	SATCOI	reray (/	72400)				
					ø		
	Bit Ø	- When set	to a "1", e	nergizes t	he outpu	relay.	
3.0	Interf	acing Spec	ifications	•			
3.1	cablin	ng into the	c (DEC 12-055 Watchdog Ti DEC 12-948).	mer is sup	mating coplied an	onnector for d is a DEC 12-	
				SIZE	CODE KV	NUMBER V11-W-2	REV
DEC FORM	I MO DEC 16	-(381)-1022-N37		A		SHEET _7 OF	

NGINE	RING SPECIFICA	TION E		CO	NTINUATION SHEET	
TLE KW1	1-W Engineering Spe	cifications				
Bit	Name	Meani	ng and	1 Opera	tion	_
1 .	Enable Timer	When set to stage of the control or	e wate	chđog,	les the output under program trol.	
		edge of 5ms	ec. e: gener	rror pu	d by trailing alse and by wer clear on	
ß	Start Timer	When set to the timer i			e CSR/WD addres	38,
		Write only	bit.			
		.• :				
		•				
	•					
			SIZE	CODE	NUMBER	RE
	DEC 16-(381)-1022-N370		LA_	SP	KW11-W-2 SHEET _6 Of	- 8

ENG	INEERING	SPECIFICAT	ION DE	i i i i i i i i i i i i i i i i i i i	С	ONTINUATION SH	EET
TITLE	KWll-W Eng	ineering Spec	ifications				
		nin	Signal Nar	10			*.
		Pin		ne			
		1 2 3	N.O. C N.C.				
		4 5 6	+ Latch - Latch + D15				
		7 8 9	- D15 + DØ7 - DØ7	n.ı.t			•
		10 11 12 13	+ Rec. In - Rec. In + Externa - Externa +4.7V	put 1 En	able able		
		15 16	GND Solid Sta	te O	utput		
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	· · · · · · · · · · · · · · · · · · ·						
				SIZE	CODE	NUMBER KW11-W-2	RE
	FM NO DEC 16-(3)	· 		Α_	or .	SHEET _8_	

**ENGINEERING SPECIFICATION** 

SHEET 1 of 5

**CONTINUATION SHEET** 

# TITLE KW11-W Adjustment Procedure Place the I.C. test chip on El3 (74123) and scope probe to pin 13 and adjust R3 for desired range of Short Loop (T1). (Refer to drawing D-CS-M7823-0-1). Place the I.C. test chip on E5 (74123) and scope probe to pin 5 and adjust the R2 for desired range of second chance (T2). (Refer to drawing D-CS-M7823-0-1). 2.6 Place scope probe on pin 13 and adjust Rl for desired range of watchdog (T3). (Refer to drawing D-CS-M7823-0-1). Turn off computer power and remove extender board and install M7823. Turn on computer power and run logic test. Refer to KW11-W Acceptance Procedure. Proceed to 3.0. 3.0 <u>Set-Up for User Application</u>: 3.1 Turn off computer power and remove Timer. 3.2 Remove test connect (7009463) and cut optional jumpers; refer to table 2 and 2.1 for user application. 3.3 Connect the M7823 user cable and install M7823 into the computer and turn on power. 3.4 When the above criteria is met, the adjustment of the KW11-W is complete. SIZE CODE NUMBER KW11-W-3 SP DEC FORM NO DEC 16-(361)-1022-N370 DRA 108 SHEET \_

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## **ENGINEERING SPECIFICATION** CONTINUATION SHEET KW11-W Adjustment Procedure Equipment: W900 Extender Board 453 Textronic Scope or Equivalent KW11-W Option and Print Set Diagnostic MAINDEC-11-DZKWC-A-PB-D I.C. Test Clip Test Connector 7009463 1.0 <u>Set-Up</u>: Halt PDP-11 and turn off power. Disconnect user's cable and remove from system M7823. Install all jumpers on M7823; refer to print D-CS-M7823-0-1. Connect test connect 7009463 to M7823 in place of user cable. Install W900 extender board in place of M7823. Refer to table 1 for desired ranges for short loop (T1), second chance (T2), and watchdog (T3) respectively. Solder desired capacitor on split lugs on M7823. Refer to print D-CS-M7823-0-1 for split lug position. After the above procedure is complete, connect the M7823 piggy-back on the W900 module. 2.0 Delay Adjustments: 2.1 Turn on power and load MAINDEC-11-DZKWC-A-PB using absolute loader; refer to program write-up

- MAINDEC-11-DZKWC-A-D.

  2.2 After meeting all criteria of the KWll-W Logic Tes
- 2.2 After meeting all criteria of the KWll-W Logic Test first address, vector address and priority, the operator must key in on the keyboard "2" carriage returns for delay test. The teletype will respond with the following:
  - (1) Delay Adjustment Test
  - (2) Delay: (1) Watchdog, (2) Warning & Short Loop
- 2.3 The operator must input 1 carriage return. This will pulse all three delays; Short Loop (T1), Second Chance (T2), and Watchdog (T3).

**ENGINEERING SPECIFICATION CONTINUATION SHEET** KW11-W Adjustment Procedure A note should be made that Short Loop (T1) should be a maximum of 10% of Second Chance (T2) time base. Table 1 Short Loop (T1) Range Capacitor C37 650 usec.-6.0msec. .47uf 1.5msec.-10msec. 1 uf 2.2uf 3msec.-25msec. 5.1msec.-50msec. 3.9uf Capacitor C36 Second Chance (T2) Range 15msec.-120msec. 10uf 20msec.-150msec. 15uf 150msec-1.2 sec. 100uf 180msec-1.5 sec. 1.50uf 210msec-2 sec. 180uf Range Capacitor C35 Watchdog (T3) 10uf 15msec-120msec 20msec-150msec 15uf 150msec-1.2 sec. 100uf 180msec-1.5 sec. 150uf 210msec-2 sec. 180uf If desired range is  $\underline{\text{NOT}}$  above, the following formula can be used to calculate the range: T = Nsec RX = KRX = 5K minimum/50K maximum T = .28 (RX) (CX) T1, T2, and T3 are shipped from factory at 5 ms, 1 sec and

1.5 sec, respectively.

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

SHEET 4 OF 5

REV

NUMBER KW11-W-3

ENGI	NEERING SPECI	FICATIO	NC	1 36	CONTINUATION S	HEET
TITLE	KWll-W Adjustment	Procedu	re		•	
			ı			
		Tal	ble 2			
	Jumpers	•		IN	OUT	
	Wl Program Inter Enable	rupt		X	<u> </u>	
	Wl Always Enable	!			x	
	W2 Program Exter Enable	nal		<b>x</b>		
	W2 Not Program E Enable	xternal			x	•
	W3 External Enab	le		x		•
	W3 Not External	Enable			x	
		Tab	ole 2-1			
	Input Voltages		6	24	48	
	External Enable	W4	IN	OUT	OUT	
	External Enable	W5	IN	IN	OUT	
•	Receive Input Receive Input	W6 W7	IN IN	OUT	OUT	
	D <b>Ø7</b>	w8	IN	OUT	OUT	
	DØ7	W9	IN	IN	OUT	
	D15 D15	W1Ø W11	IN IN	OUT IN	OUT	
	Latch	W12	IN	OUT	OUT	
	Latch	W13	IN	IN	OUT	
		• •	- <del>, , , </del>	SIZE C	DDE NUMBER	
				A	SP KW11-W-3	

SHEET \_5 OF \_5

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	REVISIONS							
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DIGITAL EQUIPMENT CORPORATION

TITLE KW11-W Acceptance Procedure 1.0 Equipment: PDP11 Small Computer SPS (Small Peripheral Slot) M7823 (Watchdog Timer) M105 (Address Selector) M7821 (Vector Address Selector) Test Connector (7009463) KW11-W Logic Test Maindec-11-DZKWC-A-PB/D KW11-W Overlay Maindec-11-DZKWE-A-PB/D DECX11 Module Maindec-11-DXKWW-A-PR/D 2.0 Set-Up: To exercise the KWll-W Option, ALL jumpers must be installed on the M7823. Refer to print D-CS-M7823-0-1. The test connector, 7009463, must be used on KWll-W Logic Test and KW11-W Overlay or Maindec-11-DXKWW-A. Testing KW11-W: 3.0 Load Maindec-11-DZKWC-A-PB into the PDP11 using absolute leader. Refer to program write-up, Maindec-11-DZKWC-A-D. REV KW11-W-4 DEC FORM NO DEC 16-(381)-1022-N370 SHEET 2 OF 6 f righted to a **CONTINUATION SHEET ENGINEERING SPECIFICATION** 

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**ENGINEERING SPECIFICATION** 

KW11-W Acceptance Procedure Load and start 200. The teletype will respond as follows: First Device Address: The operator must respond by inputting 6 characters plus a carriage return on the keyboard. Example: First Device Address = 772400 The teletype will respond as follows: 3.2 First Int. Vector The operator must respond by inputting 3 characters plus a carriage return on the keyboard. Example: ∆ First Int. Vector = 350 The teletype will respond as follows: 3.3 Priority Int. Level = The operator must respond by inputting 1 character  $\underline{\Lambda}$  Using floating vector, refer to system configuration. Should be between DQ11 and DU11. SIZE CODE NUMBER KW11-W-4 REV DEC FORM NO DEC 16-(381)-1022-N370 DRA 108 3 SHEET OF

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**ENGINEERING SPECIFICATION** 

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CONTINUATION SHEET

TITLE KW11-W Acceptance Procedure Example: Priority Int. Level = 7 Proceed to 4.0. 4.0 Running the Logic Test: The teletype will respond with the following: Logic Test (1), Delay Test (2), Dynamic (3) The operator must respond by inputting on the keyboard "1" with a carriage return for logic test. The teletype will respond with the following: Logic Test This test, upon completion, will type out "PASS". This test should run for a minimum of 5 minutes. Procede to 5.0. NOTE: Delay test (2) is part of the adjustment procedure. NUMBER DEC FORM NO DEC 16-(381)-1022-N370 DRA 108 SHEET 4

CONTINUATION SHEET **ENGINEERING SPECIFICATION** KW11-W Acceptance Procedure TITLE Running Dynamic Test: Put Bit 88 in the Switch Register to get back into the monitor or halt machine and load and start 240. If the operator has gone back into the monitor, a keyboard input must be used. Type in "3", carriage return. Will get into Dynamic Test. The teletype on every 100 completions of Dynamic Test will type "PASS". This test should run for a minimum of 15 minutes. After successfully passing the above criteria, procede to 6.0. Running GTP Overlay: If DECX11 module is available, proceed to 7.0. Load Maindec-ll-DZQGA-B-PB GTP (General Test Program) using Absolute Loader. Refer to program write-up, Maindec-ll-DZQGA-B-D. Run entire system for one pass of GTP. Halt the PDP11 after one successful pass. Load Maindec-11-DZKWE-A-PB into PDP11 using Absolute Loader. Restart GTP and run as required for system acceptance. After completing 6.0, the acceptance testing is finished. NUMBER KW11-W-4 DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

**ENGINEERING SPECIFICATION** jikji‡a CONTINUATION SHEET TITLE KW11-W Acceptance Procedure 7.0 Running DECX11: Refer to DECX11 Building Procedure and Build System Tape. Run as required. Upon completion, acceptance testing is finished. DEC FORM NO DEC 16-(381)-1022-N370 DRA 108 SHEET 6 OF 6

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